



Joint Legislative Transportation Oversight Committee

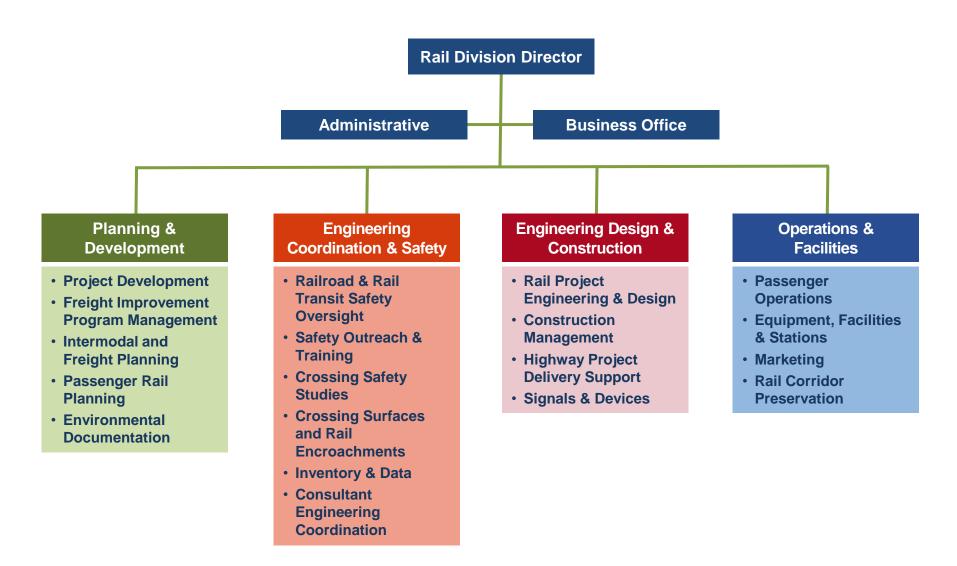
January 8, 2016

#### NCDOT Rail Division

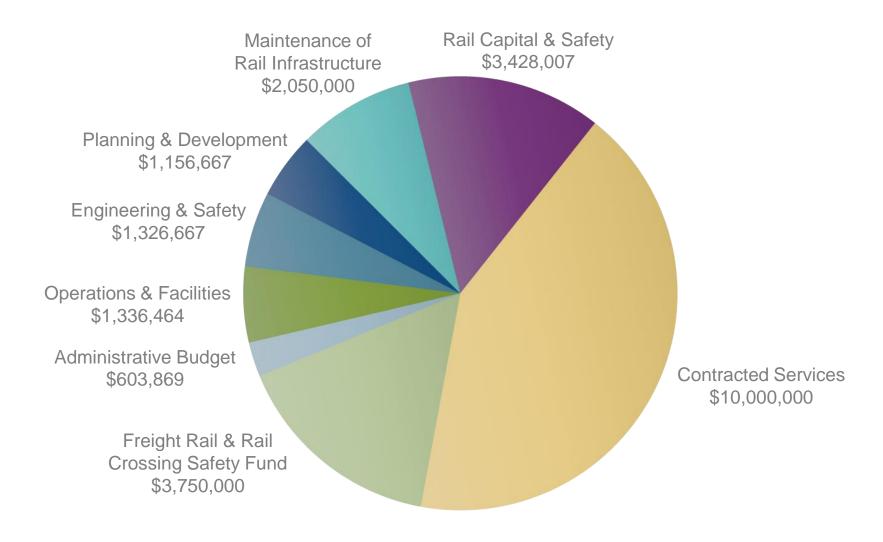
Paul Worley, NCDOT Rail Division Director



#### Rail Division



#### *Rail Division – State FY 2016 Funding – \$23,651,674*



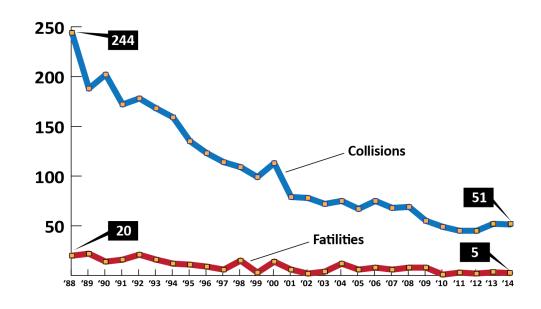
#### Railroads Operate in 86 of 100 Counties



#### At-Grade Highway-Rail Crossings

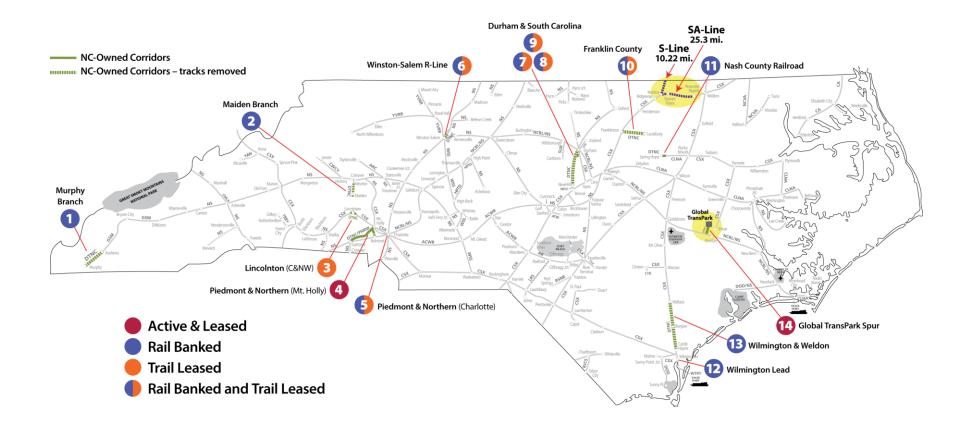
## Improvements to and elimination of at-grade highway-rail crossings have reduced train-car collisions and resulting fatalities

- 60% of 4,025 public crossings have automatic warning devices
- Approximately 1,600 at-grade crossings remain unsignalized
- NCDOT continues to partner with railroads and others to improve or eliminate at-grade crossings
- Priority system based on FHWA-approved "Investigative Index" system
- No current funding for closing or improving private crossings



#### Corridor Preservation

- New operator on GTP spur
- Proposed acquisition of S-Line and SA-Line
- Coordinate with local Economic Developers, RPOs and MPOs



#### Freight Connectivity Planning

#### **Eastern Intermodal**

- 25-Year Vision and 2015 Rail Plan identified need for better intermodal service and access to the Triangle and Eastern NC
- Would provide enhanced logistics to existing and prospective businesses in the Triangle and rural eastern NC

#### **GTP to Port of Morehead City**

- SB-402 Eastern Infrastructure Improvement Study
- Feasibility Study Update

#### **Access to Port of Wilmington**

- Near term at-grade crossing consolidation and improvements
- Long term Second Cape Fear River Bridge

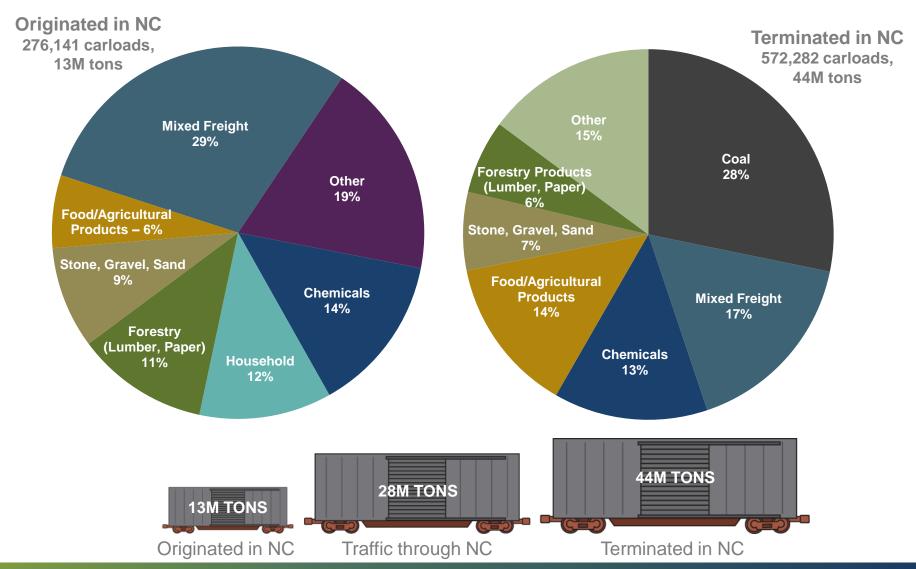


Market and business justification enhances access to national markets.

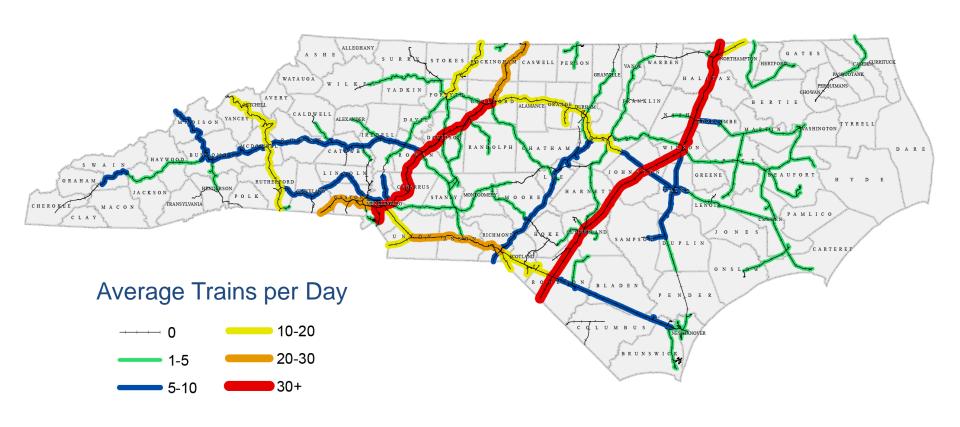
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#### Freight Rail Traffic

Source: Surface Transportation Board Waybill Sample

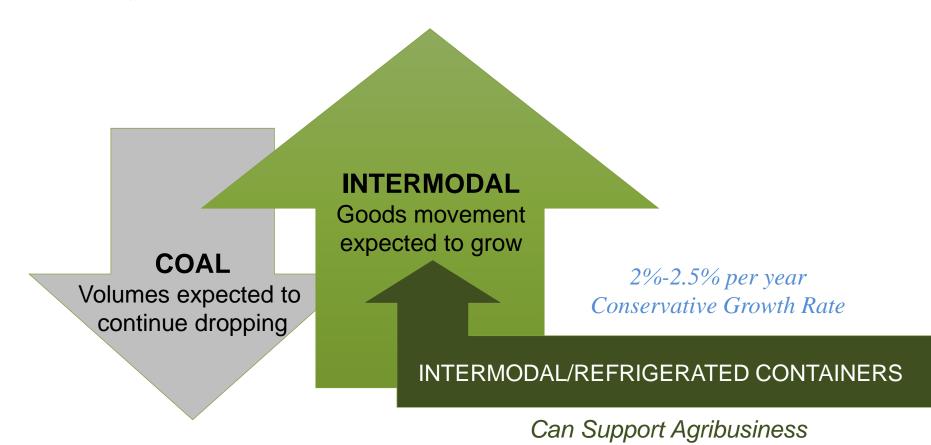


#### 2015 Train Volumes in North Carolina



#### Rail Movement Trends

Dominant freight volumes move north and south on Class I Railroads
Class I branch lines and short lines provide NC east-west access to the
Class I system



#### 2015 State Rail Plan Recommendations - Freight

- Safety improvements along Investment Tier corridors (heavy freight traffic and serving our ports)
- Capacity improvements at/near intermodal terminals
- Evaluate competitive intermodal service to Eastern NC and the Triangle, considering agriculture, cold storage and manufacturing
- Study major railroad improvements Kinston to Morehead City; access to Wilmington
- Continue to seek partnerships for restoration of Wallace-Castle Hayne segment (Port of Wilmington)
- Serve emerging markets
- Preserve corridors active and inactive





<u>Transportation</u>

#### Freight Program – STI P3.0

Class I Projects and Needs – in 2016-2025 STIP (STI P3.0)	0-5 Years	BCA Ratio for Near Term Projects (Discounted at 3%)
New Norfolk Southern TBT (Bulk Terminal) Facility in Charlotte	\$976,000	1.97
Container parking/storage adjacent to Norfolk Southern's Greensboro Intermodal Facility (converts former Roundhouse property)	\$1,695,000	13.11
CSXT – 10,000 foot siding extension at Stouts in Union County. Creates passing siding on segment of single track that benefits general freight and intermodal traffic	\$10,600,000	14.77
Upgrade NS rail line paralleling US 52 in Albemarle (Stanly County) to allow for freight	\$2,126,000	1.39
Subtotal	\$15,397,000	
Funded by State	\$8,548,000	
Funded by CSXT	\$5,300,000	
Funded by NS	\$1,549,000	
Additional Near, Mid, and Long-term Class I freight rail projects: (2015-2040)*	\$1.1B	

<sup>\*</sup>Includes projects such as track improvements/new access, intermodal and rail yard improvements, crossing safety and grade separations, corridor preservation and energy development support.

#### Benefits of Freight Rail Projects

#### Benefit Cost Ratios represent the ratio of public benefits to costs

- The discount rate is used to bring streams of benefits and costs over time to a common year
- Public benefits for freight project typically include:
  - Shipper savings logistics cost savings to businesses and industries that ship goods
  - Safety benefits the value of reducing the number and severity of accidents
  - Pavement maintenance costs avoided the cost savings that result from reduced highway maintenance needs that can occur when truck traffic is diverted to rail
  - Congestion savings the value of the time that a project can save users / travelers on the transportation system
  - Emissions savings the value to the public of reducing emissions



#### Short Line Freight Program – Identified Needs and Costs

Based on 11 Short Line Survey Responses	Funding Needs By Time Period		
Short Line Projects and Needs  Eligible for Funding by FRRCSI	0-5 Years	6-10 Years	11-20 Years
Bridges	\$54,000,000	\$3,000,000	\$22,000,000
Rail	\$5,000,000	\$11,000,000	\$28,000,000
Ties and Surfacing	\$14,000,000	\$14,000,000	\$30,000,000
Additional Capacity	\$16,000,000	\$5,000,000	\$1,000,000
Rail Yards	\$1,000,000	\$2,000,000	
Transloads	\$2,000,000	\$500,000	
Other Needs	\$3,000,000	\$34,000,000	\$2,000,000
Total*	\$95,000,000	\$69,500,000	\$83,000,000

<sup>\*</sup>Includes projects such as improvements of bridges and culverts, track structure, crossing surfaces, interchange points, rail yards and transfer facilities

### Some Near-Term Approaches to Addressing Short Line and Class I Identified Needs

#### Railroad Bridges

Many on light density lines need upgrading to 286K standards for today's railcars.

In 2010, approximately 53% of the regional and short line system in the US could accommodate 286k.





Class I needs identified in Rail Plan included 19 projects – at \$320M

#### **Support Freight Diversions to Rail**

Providing access and additional rail capacity to existing industries





# Freight Rail & Rail Crossing Safety Improvement Fund

Established 2013 under NCGS §124-5.1 and funded by annual NCRR cash dividends

#### \$26.7M allocated to date:

- \$19.2M SFY 2014\*
- \$3.75M SFY 2015
- \$3.75M SFY 2016

#### **Program goals:**

- Make North Carolina's railroads safer
- Meet the needs of existing rail customers
- Address needs of prospective rail customers
- Build to meet the needs of future rail customers in small urban and rural areas



\*Includes one-time first-year additional \$15.45M allocation

#### FRRCSI Project Categories & Needs

#### Funds allocated statewide by NCDOT to projects based on:

- Eligibility
- Needs
- Prioritization methodologies

## Track & Infrastructure Improvements

- Short LineInfrastructureAssistance
- Class I Infrastructure Projects
- Federal GrantMatching Funds

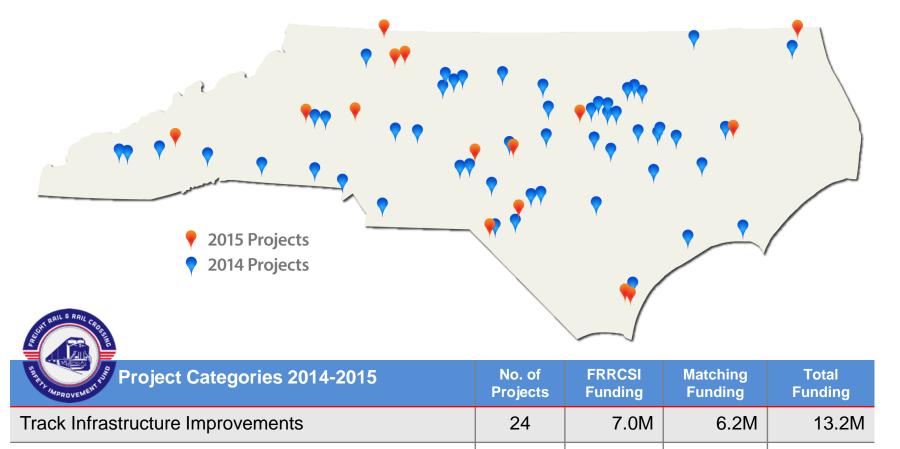
# Grade Crossing Protection, Elimination & Signalization Improvements

- Closures
- Corridors
- Signals
- Signage
- Surfaces

#### Rail Access Improvements

- Discretionary Grant Matching Funds
- Rail Industrial Access
- Military
- Ports
- Industry

#### *FRRCSI Projects* – 2014-2015



#### State Grant Programs – FRRCSI Funded

#### **Short Line Infrastructure Assistance Program (SIAP)**

- Traditionally funded by annual state legislative allocation
- Previous annual allocations have ranged from \$0 to \$2 million
- FRRCSI is the source of funding in FY14 & FY15

#### Rail Industrial Access Program (RIAP)

- Traditionally funded by annual state legislative allocation
- Previous annual allocations have ranged from \$119k to \$1 million
- Provides funds for construction of rail spurs to allow industries new or expanded rail access
- Bringing jobs to people
- Diverting freight from highways to rail



# 2015 Fixing America's Surface Transportation Act (FAST)

#### Nationally Significant Freight and Highway Project Program

- Grants of at least \$25 million
- Federal share cannot exceed 60%
- States / governmental entities
- Rail freight and intermodal
- Crossing and / or grade separations
- All project development phases eligible
- \$800 million nationally in 2016 Omnibus



#### Transportation Investment Generating Economic Recovery (TIGER)

- \$500 million in 2016 Omnibus
- Coordinate funding between STI and TIGER

#### **Section 130 Crossing Safety Funding**

- Slight increase in national set aside from \$220M to \$245M
- NC has typically received \$6.5M



#### Questions?

